AMENDMENT TO THE ABSTRACT

Please amend the Abstract of the Disclosure to read as follows.

--The present invention is directed to a ~~A~~ displacement detector ~~is provided,~~ which can compensate a change in temperature coefficient of impedance of a coil to a displacement of a core. The detector comprises a constant-current supply unit for outputting a constant current including an alternating current, a coil portion, to which the constant current is supplied, a magnetic core supported to be movable relative to the coil portion in a movable range, and a signal processing circuit for determining a displacement of the core to the coil portion according to a change in output voltage of the coil portion under the supply of the constant current to the coil portion, characteristic-value extracting unit for extracting a characteristic value (V1) from the output voltage of the coil portion, and a level shift circuit for adding a level shift voltage (Vsh) to the characteristic value. A fluctuation width of temperature coefficient of a total (V2) of the characteristic value (V1) and the level shift voltage (Vsh) in the movable range is smaller than the fluctuation width of temperature coefficient of the characteristic value (V1) in the movable range.--